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B03C 1/02 ^(2006.01) **B04C 5/04** ^(2006.01)
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C01B 3/24; C01B 3/384; C10J 3/66; C10J 3/723;
C10K 1/005; C10K 1/026; C10K 1/04; C10K 1/06;
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(71) Applicant: **Jacobsen, Jørn**
London, W1B 3HH (GB)

(72) Inventor: **Jacobsen, Jørn**
London, W1B 3HH (GB)

(74) Representative: **Bryn Aarflot AS**
Patent
Stortingsgata 8
0161 Oslo (NO)

(54) **METHOD AND APPARATUS FOR THE CYCLONIC SEPARATION OF SOLID PARTICLES**

(57) A method for thermal treatment and chemical transformation of waste comprising carbonaceous materials for generation of a fuel gas or methanol, and for processing solid particles using a cyclonic particle separator, comprising adjusting the humidity of the materi-

als, introduction into thermolysis reactor(s), introduction into a conversion unit, causing gasification of solid carbonaceous material, introducing the solid rest into char handling unit for further treatment in a cyclonic particle separator.

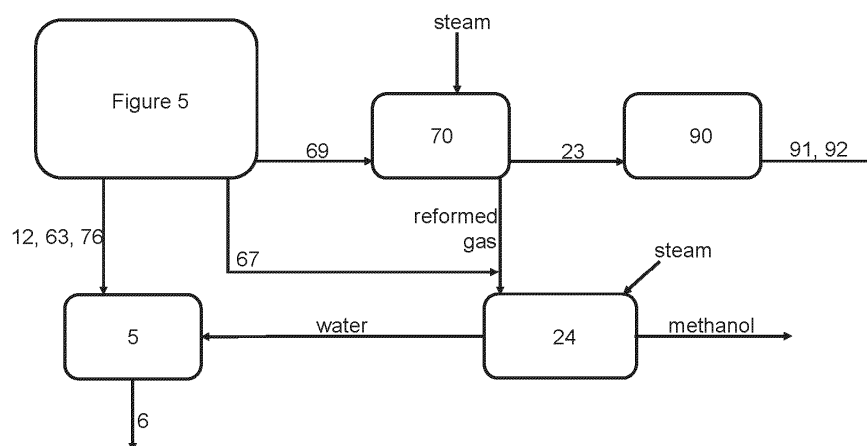


Figure 5b

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EUROPEAN SEARCH REPORT

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Y	* paragraphs [0002], [0084]; figures 1,2,4,14,15,18 *	9,14,15	B02C13/282 C10J3/62 B04C5/14
X	US 2004/169096 A1 (HAHN WILLIAM E [US] ET AL) 2 September 2004 (2004-09-02)	1-8, 10-13	B04C5/13 B03C3/15
Y	* paragraphs [0069], [0070], [0075]; figures 1, 4, 5 *	9,14,15	B04C9/00 B01D45/12 B03C1/02
Y	LibriXer: "Liberator - A Lean, Clean, Anti-Greenwashing-Machine - LibriXer", 31 January 2022 (2022-01-31), XP093243795, Retrieved from the Internet: URL:https://www.youtube.com/watch?v=adopJUUnO2g&ab_channel=LibriXer * the whole document *	9,14,15	B04C5/04 C01B3/50 C10J3/66 C10J3/72 C10K1/00 C10K1/02 C10K1/04 C10K1/06
			TECHNICAL FIELDS SEARCHED (IPC)
			C10J C10B B04C B03C B02C
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
Munich		28 January 2025	Pössinger, Tobias
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



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Munich	28 January 2025	Pössinger, Tobias	
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